

Atoms of Lebesgue along central foliation

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Some years ago we asked whether exists or not, partially hyperbolic diffeomorphism on Torus with vanishing central Lyapunov exponent and non compact central leaves. Joint with G. Ponce we constructed such examples which yielded later in joint works with Ponce and Varão examples of minimal yet measurable foliations. Later we applied the methods of disintegration of Lebesgue measure along center foliation to prove that Kolmogorov property of derived from Anosov diffeomorphisms on 3 Torus with absolutely continuous foliation is equivalent to Bernoullicity.